

पीएम श्री केन्द्रीय विद्यालय नं.1, तिरुपति

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SUMMER BREAK HOLIDAYS HOME ASSIGNMENTS 2025-2026

SECONDARY LEVEL

CLASS X

ENGLISH

1. There is so much debris in space, which sooner rather than later, is going to cause major damage. As concerned citizen of Earth, write a letter to NASA chief outlining your concerns.
2. Write a letter to your parents appreciating them for all the little things they do. You appreciate them, but have never had or taken the time to express it to them.
3. Complete the following story. It has to be a scary story that terrifies people. Give a suitable title to your story.
I stopped my scooter in front of an old and dilapidated building. A haggard, skinny old man with drooping shoulders came towards me. "Don't go in, sir", he whispered "It is dangerous..."
4. Today, many projects in India are being initiated and implemented with the aim of transforming India into a digitally empowered society and economy.
Digital India program
It - Jobs
E- governance
E- kranti Electronic delivery of services broadband for all-urban and Rural Information for all.
Write an analytical paragraph of 100-120 words based on the given information.
5. Read the given details of the different activities that interest children in the age group of 14-17 years.
 - * dance, music, art
 - * outdoor sports like cricket, hockey, basketball, soccer, tennis.
 - * computer games
 - * net surfing
 - * social mediaanalyse the details and write an analytical paragraph in about 120 words about the suitability of the given activities. Focus on factors like interest, physical, mental and emotional development, personality development and suitability.

HINDI

1. भक्तिकाल के किन्ही दो कवियों के जीवन व कृतित्व पर जानकारी एकत्र कीजिए।
2. पाठ्यपुस्तक से अतिरिक्त सूरदास के पदों का संकलन कीजिए।
3. नेताजी सुभाष चंद्र बोस के व्यक्तित्व पर जानकारी एकत्र कीजिए।
4. अपने घर के आस-पास देखिए और पता लगाइए कि नगरपालिका ने किन-किन महान व्यक्तियों या नेताओं की मूर्तियां लगाई है और हमारी उसमें क्या भूमिका हो सकती है ?
5. भारत के मानचित्र में उन 5 स्थानों को खोजिए, जहां किन्हीं 5 भक्त कवियों का जन्म हुआ हो।
6. किन्ही 3 लोकगीतों का संकलन कीजिए।

SANSKRIT

1. काल - बोधक - शब्दान् (समयं) लिखत।
11:30, 12:45, 1:00, 6:15, 10:30
11:45, 9:00, 6:15, 3:30, 8:15
2. किमापि चित्रद्वयं स्वीकृत्य 10- 10 वाक्यानि संस्कृतेन निर्माणं कुरु।
3. "तिरुपति- नगरम् " इति "केंद्रीय विद्यालय संगठन" इति निम्नलिखितं विषयं अधिकृत्य 5-5 वाक्यानि संस्कृतेन लिखत।
4. एकम् अनौपचारिक तथा एकम् औपचारिक पत्रं लिखत।
5. किम् शब्दरूपाणि त्रिषु लिङ्गेषु (पुल्लिङ्ग, स्त्रीलिङ्गः नपुंसलिङ्गम्)
लिखत स्मरत च।
6. अस् धातु कृ धातु रूपाणि पञ्च लकारेषु लिखत स्मरत च।

SCIENCE

1. Portfolio
2. Practical record
3. Writing answers of Monthly test April-2025

SOCIAL SCIENCE

PROJECT WORK

Total marks allotted for the project are 5 marks (content accuracy, originality and analysis -2 marks, Presentation and creativity- 2 marks , Viva Voce-1 mark)

Date of submission (submit it on 22/06/2025)

The Topic for the Project are given below (**Do any one of the following**)

- Consumer Awareness
- Social Issues
- Sustainable Development

Guidelines for the Project -

Collect pictures and information from various sources like newspapers, photographs, articles from magazine and internet

- a. Only eco-friendly material to be used.
- b. The project should be hand written. Print outs will not be accepted.
- c. Use A4 size white paper and make a project work file.
- d. Submit the Project Work on 22/06/2025
- e. All the photographs should be labelled and acknowledged.
- f. If possible, different forms of Art may be integrated in the project work.
- g. A case study of supplement and build up on the Project shall be appreciated.

Project should be developed and presented in this order -

1. **Cover page** showing project title , school name , student name , Class and section and academic session (year)
2. List of **contents** with page number (approx. 10 to 15 pages)
3. **Acknowledgements** : Acknowledging institution and people who have helped
4. **Project overview**: Purpose , aim , methodology and experience while doing the Project
5. **Summary and conclusion** based on findings
6. **Bibliography** should have the title, page referred, author, publisher, year of publication and if a website, the name of the website with a specific link which have been used.
7. **Project evaluation proforma** (The Proforma should be attached on the last page of the project)
 - School Name:
 - Address:
 - Student Name:
 - Roll. No.
 - Class:
 - Section:
8. **Teacher Assessment**
 - Content accuracy and originality:
 - Presentation and creativity:
 - Overall remarks :
 - Teacher signature:
 - Date:
 - School stamp :

MATHS

Q.1 Express each number as product of its Prime factors

- a) 140 b) 156 c) 3825 d) 5005 e) 7429

Q.2 Find L.C.M and H.C.F and also verify that

L.C.M \times H.C.F = Product of numbers

- a) 26,91 b) 336,54 c) 96,404

Q.3 Check whether following number can end with digit zero for any natural number n

- a) 6^n b) 4^n c) 12^n d) 15^n

Q.4 Show the following as irrational by method of contradiction:

- a) $\sqrt{2}$ b) $\sqrt{3}$ c) $\sqrt{5}$ d) $\sqrt{11}$ e) $5+4\sqrt{3}$ f) $2+7\sqrt{11}$ g) $2-7\sqrt{5}$ h) $\frac{5+\sqrt{2}}{4}$
i) $\frac{5-\sqrt{3}}{4}$ j) $\frac{1}{\sqrt{3}}$ k) $\frac{1}{\sqrt{7}}$

Q.5 Find a Quadratic Polynomial whose zeroes are: -

- a) 3,4 b) 2, -3 c) $\sqrt{2}, 5$ d) $\frac{1}{4}, 1$

Q.6 Write a Quadratic Polynomial whose sum and product of zeroes are respectively

- a) 1,1 b) 2, $\sqrt{3}$ c) 0, $\sqrt{5}$ d) $\frac{1}{4}, -3$ e) $\frac{-1}{4}, \frac{1}{4}$

Q.7 Find the value of k, if

- a) 3 is one of the zeroes of Polynomial $3x^2+k$.
b) 1 is the zero of Polynomial $kx+5$
c) -1 is the zero of Polynomial $kx+7$
d) 3 is one of the zeroes of Polynomial $(k-1)x^2+kx+3$
e) 2 is one of the zeroes of Polynomial $(k+1)x^2+kx+3$

Q.8 Find a) $\alpha+\beta$ b) $\alpha\beta$ c) $\frac{1}{\alpha} + \frac{1}{\beta}$ d) $\frac{\alpha}{\beta} + \frac{\beta}{\alpha}$ for following Quadratic Polynomials:

- a) $x^2+7x+10$ b) x^2+x-2 c) $4x^2+4x-3$

Q9. An army contingent of 616 members is to march behind an army band of 32 members in a parade. The two groups are to march in the same number of columns. What is the maximum number of columns in which they can march? (Find HCF)

Q10. Three bells ring at intervals 6 12 18 minutes respectively if all the three bells ring at 6 am when will they ring together again (find LCM).

Q11. Three sets of English, mathematics and science books containing 336, 240 and 96 books respectively must be stacked in such a way that all the books are stored subject wise and the height of each stack is the same. How many stacks will be there?

Hint: Find the HCF of 336, 240 and 96 using prime factorization.

The number of stacks = $336/\text{HCF} + 240/\text{HCF} + 96/\text{HCF}$

AI

1. Define AI Project Cycle, Name all the stages of an AI Project cycle.
2. What are the domains of AI? Explain Each Domain with its application
3. Define AI Ethics? What are the different classification of AI ethical Frameworks?
4. What is Bioethics? What are the Principles of Bioethics
5. How do you understand whether a machine/application is AI based or not? Explain with an example.
6. Write Examples of Features or applications used in Smart Phone that uses AI.
7. Write the Applications of AI

CLASS IX

ENGLISH

Letter writing: You are Ashwin, Examination incharge, P.M Shri K.V 1, Tirupati You require reams of paper, answer Sheets, Staple pins and staplers, Marks registers, Red pens, place an order with Aadithya Stationary, Prakasam road, Tirupati. Mentioning all the Specifications, quantity, terms of payment, discount and delivery date

You are Rishi, Studing 9 B class at ZPHS, Tirupati. As the heat in the summer is increasing, all the people are facing problems of the heat wave write a letter to the Editor. The Times of India, giving Suggestions to 'Beat the heat', to creat Awareness Among the people

Descriptive paragraph: You travelled for the first time in a train that too alone, Write a paragraph describing your feelings and experiences.

Write a paragraph on each of the Following

- (a) Electronic waste and Environment pollution
- (b) Being human in the age of Artificia Intelligence (AI)

Story writing:

Complete the Story-

I stopped by Scooter in front of an old and dilapidated building A haggared, skinny old man with drooping Shoulders came towards me. "Don't go in, madam, wi he wishpered It is dangerous....

HINDI

1. उपसर्ग और प्रत्यय की परिभाषा लिखते हुए हरे के लिए 25 उदाहरण लिखिए।

2.1 से 100 तक हिंदी में संख्या और शब्दों में लिखिए।

3. सूरदास के 10 प्रमुख पद संग्रह करके लिखिए।

4. निम्नलिखित विषयों पर अनुच्छेद लेखन लिखिए:

१ मेरे सपनों का भारत २. जीवन में खेलों का महत्व ३. समय का सदुपयोग ४ मोबाइल की हानि और लाभ ५ करोना की समस्या और समाधान।

5.पत्र लेखन : औपचारिक पत्र पत्र 3और अनौपचारिक पत्र 2 लिखिए।

6 दूरदर्शन पर दिखाए जाने वाले विज्ञापनों का बच्चों पर बढ़ता प्रभाव विषय पर अध्यापक और विद्यार्थी के बीच हुए वार्तालाप को संवाद शैली में लिखिए।

उपरोक्त सभी कार्य A4 साइज कागज पर लिखकर स्टिक फाइल बनाइए। इस कार्य को विद्यालय के पुनःप्रवेश के दिन को सुपुर्द किया जाए।

SANSKRIT

1.सम्पूर्ण -वर्णमाला

ह्रस्व-दीर्घ-स्वराः, स्पर्श-अन्तःस्थ-उष्म- संयुक्त-व्यञ्जनाः

अनुसारेण लिखत स्मरत च।

2.किमापि चित्रद्वयं स्वीकृत्य 10- 10 वाक्यानि संस्कृतेन निर्माणं कुरु।

3."तिरुपति- नगरम् " इति "केंद्रीय विद्यालय संगठन" इति निम्नलिखितं विषयं अधिकृत्य 5-5 वाक्यानि संस्कृतेन लिखत।

4.एकम् अनौपचारिक तथा एकम् औपचारिक पत्रं लिखत।

5. किम् शब्दरूपाणि त्रिषु लिङ्गेषु (पुल्लिङ्ग, स्त्रीलिङ्गः नपुंसलिङ्गम्)

लिखत स्मरत च।

6. अस् धातु कृ धातु रूपाणि पञ्च लकारेषु लिखत स्मरत

SCIENCE

1. Portfolio

2. Practical record

3. Writing answers of Monthly test April-2025

SOCIAL SCIENCE

1.Prepare a flow chart about the political system under the constitution of 1791?

2.Compare the views of Desmoulins and Robespierre?

3.Write a short note on Napoleon bonaparte?

4.If you are in french revolution, How you abolish the slavery system?

5.what are the major revolutions in the world?

6.write the importance of the peasants revolt in the french revolution?

7.what are the features of Democracy?

8.write the importance of the Democracy?

MATHS

Represent $\sqrt{8.3}$ and $\sqrt{12.6}$ on number line.

Represent $\sqrt{2}$, $\sqrt{3}$ and $\sqrt{5}$ on number line.

Express the following in the form p/q.

i)2.43434343434343.....

ii)4.345698722222222.....

find a and b.

$1/(2-\sqrt{3}) = a+b\sqrt{3}$ ii) $(3+6\sqrt{3})/(7+4\sqrt{3}) = a-b\sqrt{3}$

Find five rational number between 1 and 5.

Solve the following questions.

AI

- 1.Explain briefly the 7C's basic principals of communications?
2. Write down elements of communication
3. Write down the factors affecting perspectives in communication
4. Explain the following
 - a) verbal communication
 - b) Non Verbal communication
 - c) Visual communication
5. Write down some application of AI in daily life
6. What are the domains of AI? Explain each one with its application

CLASS VIII

ENGLISH

- pg. 1.write and 15 regular verbs and 15 irregular verbs.
- 2.Write any 10 adjectives in sentences.
 - 3.Create as many words as possible from the following words.
 - 1.Hippopotamus
 - 2.Encyclopedia
 - 3.proclaiming
 - 4.Magnificent
 - 5.Compassionate
 - 4.You recently visited a fair and had the opportunity to see a camel there.write a letter to your friend detailing your visit,what you felt when you saw the camel and other sights (Refer pg.16)
 5. Describe the picture in your own words (Refer 16)

HINDI

- 1.पत्र लेखन-
 1. पढ़ाई में ध्यान लगाने हेतु छोटे भाई को पत्र लिखिए।
 2. भाई की शादी में जाने के लिए प्रधानाचार्य को 5 दिन का अवकाश पत्र लिखिए।
- 2.निबंध लेखन - 150 शब्द
 1. स्वच्छ भारत अभियान
 2. स्त्री शिक्षा
- 3.व्याकरण
 - 1.पर्यायवाची लिखिए - अरण्य ,आम, गणेश, घर, मित्र, सिंह, नदी, पुष्प
 - 2.कोई भी 10 मुहावरे वाक्य प्रयोग के साथ लिखिए ।
4. विज्ञापन लेखन
 1. 'जल ही जीवन है' विषय पर विज्ञापन तैयार कीजिए।

5. संवाद लेखन

1. आप अपने मित्र के साथ यात्रा पर गए हैं और जो आपके बीच बातचीत हुई उसे संवाद रूप में लिखिए।

SANSKRIT

१. मम परिचयः (मेरा परिचय) ।
२. संस्कृतवर्णमालां गुणिताक्षराणि(क का कि की कु कू...इत्यादीनि) च लिखत ।
३. १ तः १०० पर्यन्तं सङ्ख्याः संस्कृते लिखत स्मरत च ।
४. 'रवि, गुरु, नदी' एतेषां त्रयाणां शब्दरूपाणि लिखत स्मरत च ।
५. पठ् धातोः पञ्चसु लकारेषु (लट्, लृट्, लोट्, लङ् विधिलिङ् च) रूपाणि लिखत स्मरत च।

SCIENCE

- 1) Activity W1:4- Change in the state of matter.
- 2) Activity W1:4(a) : How can we change the state of water
- 3) Activity W1:4(b) : what are the different states of water
- 4) Activity W1:5: Mystery of Appearing of water Droplets

SOCIAL SCIENCE

1. Types of government - monarchy, dictatorship, oligarchy, theocracy, and democracy.
2. introduction to the constitution of India - brief overview of the making of the constitution of India , preamble, and fundamental rights and duties.
3. Central and federal structure of government.

MATHS

Do the following activities in A4 papers and colour the figures wherever necessary with crayons.

Activity 1.1 (Calendar activity)

Activity 1.2 (Dice activity)

Activity 1.5 (clap - jump activity)

Activity 2.1 (tree, star activity)

Activity 2.3 (polygon activity)

Write Multiplicative tables from 2 to 9 (each 2 times).

AI

1. Create an engaging PPT on the topic introduction to artificial Intelligence
2. Write the definition of AI and its application in everyday life
3. Play the following AI enabled game on any digital device available.
Note down the date ,time,,device name and your score in AI notebook HW side.

Game1:Rock,Paper and Scissors(based on Data)

URL:<https://next.rockpaperscissors.ai/>

Game 2: Semantris(based on NLP)

URL:<https://research.google.com/semantris/>

Game 3: Quick Draw(based on CV)

URL: <https://quickdraw.withgoogle.com/>

CLASS VII

ENGLISH

1. write ten examples for Noun, Adjective, Averb .
2. write a letter to your friend that you are going to visit her village in Summer holidays.How you are going to enjoy together.
3. Imagine you have got a chance to play Football in nationals . write some sentences about your preparation and happiness.
- 4.write an essay on " My school".
5. Make sentences using the following words :
a. Adorable b. Creative c. probably d. Transaction.

HINDI

- 1.हिंदी वर्णमाला लिखे और याद करें।
- 2.शादी में जाने के लिए प्रधानाचार्य को 2 दिन का अवकाश पत्र लिखिए।
- 3.निबंध लेखन - 150 शब्द
 1. मेरे जीवन का लक्ष्य
 2. प्रदूषण की समस्या
- 4.कोई भी 5 मुहावरे वाक्य प्रयोग के साथ लिखिए ।
- 5.एक मित्र का दूसरे मित्र से क्रिकेट मैच के बारे में संवाद।

SANSKRIT

१. मम परिचयः (मेरा परिचय) ।
२. संस्कृतवर्णमालां गुणिताक्षराणि(क का कि की कु कू...इत्यादीनि) च लिखत ।
३. १ तः ५०पर्यन्तं सङ्ख्याः संस्कृते लिखत स्मरत च ।
४. 'हरि, वायु, जननी' एतेषां त्रयाणां शब्दरूपाणि लिखत स्मरत च ।

SCIENCE

1. Write an activity to show that sunlight is essential for photosynthesis.
 2. Write ten animals and their food habits (kind of food and mode of feeding)
 3. Draw a well labelled diagram of human digestive system.
 4. Draw the diagram showing arrangement of teeth and different types of teeth.
 5. Draw the diagram showing photosynthesis.
- II. Define the following.
- (a) Chlorophyll
 - (c) Villi
 - (c) Stomata
 - (d) Photosynthesis
- III. Differentiate between parasite and saprotrophs.
- IV. Where is the bile juice produced? Which component of the food does it help to digest?

SOCIAL SCIENCE

1. Prepare some slogans on women empowerment
2. What is market? Briefly explain different types of markets
3. Prepare a slogan to create awareness on the prevention of road accidents
4. What is KERB DRILL
5. Differentiate between Local government and state government
6. Make a list of functions of the District collector
7. Mention the types of forests in India
8. List out the resources of the forest used by you in your daily life
9. Make a list of different human activities that cause water pollution
10. Draw a world map and find out the oceans and continents

MATHS

1) Fill in the blanks:

- (i) $35 + 42 = \underline{\hspace{2cm}}$
- (ii) $47 - 32 = \underline{\hspace{2cm}}$
- (iii) $56 + (-35) = \underline{\hspace{2cm}}$
- (iv) $37 - (+21) = \underline{\hspace{2cm}}$
- (v) $18 - (-32) = \underline{\hspace{2cm}}$
- (vi) $0 \times 12 = \underline{\hspace{2cm}}$
- (vii) $18 \times (-3) = \underline{\hspace{2cm}}$
- (viii) $(-14) \times 7 = \underline{\hspace{2cm}}$
- (ix) $(-20) \times (-10) = \underline{\hspace{2cm}}$
- (x) $0 \div 13 = \underline{\hspace{2cm}}$
- (xi) $(-48 \div 6) = \underline{\hspace{2cm}}$
- (xii) $81 \div (-9) = \underline{\hspace{2cm}}$
- (xiii) $(-35) \div (-5) = \underline{\hspace{2cm}}$
- (xiv) $42 \times 0 = \underline{\hspace{2cm}}$

(2) Multiply the following fractions:

- (i) (a) $3 \times (4/7)$ (b) $2 \times (1/5)$ (c) $3 \times (7/9)$
- (ii) (a) $(4/5) \times (5/6)$ (b) $(7/9) \times (3/5)$ (c) $(10/13) \times (2/3)$

(3) Write the reciprocals of the following fractions:

- (a) $5/6$
- (b) $2/5$
- (c) $1/4$
- (d) $9/11$

(4) Write Multiplicative tables from (2 to 20) each 2 times.

AI

1. What are the domains of AI?
2. What is computer vision ? write its application
3. Write a notes on Natural Language Processing and its application
4. Write a short note on the following
 - a) John McCarthy
 - b) Alan Turing
 - c) Marvin Minsky

CLASS VI

ENGLISH

1. write parts of speech with one example each .
2. write ten sentences about your favourite fruit
3. write ten Homophones.
4. write an essay about how you are going to spend summer holidays.
5. Find the following meanings from the dictionary.
 - a. Execution
 - b. ceremony
 - c. peasant
 - d. Harmony

HINDI

- 1.हिंदी वर्णमाला लिखे और याद करें।
- 2.अपनी पाठ्य पुस्तक मल्हार की ।
- 3.मातृभूमि कविता लिखें और याद करें।
- 4.निम्नलिखित मुहावरों के अर्थ और वाक्य प्रयोग लिखे
 - I.अंत भले का भला
 - ii.अपने मुंह मियां मिट्टू बनना
 - iii.अंधे के हाथ बटेर
 - iv.उल्टा चोर कोतवाल को डांटे
 - v.जितने मुंह उतनी बातें
- 5.प्रधानाचार्य को पत्र लिखकर सूचित कीजिए कि आपकी कक्षा का पंखा खराब हो गया है।

SANSKRIT

१. मम परिचयः (मेरा परिचय) ।
२. संस्कृतवर्णमालां लिखत ।
३. गुणिताक्षराणि(क का कि की कु कू...इत्यादीनि) च लिखत ।
४. १ तः ५० पर्यन्तं सङ्ख्याः संस्कृते लिखत स्मरत च ।

SCIENCE

- I Activity Book: (SEA)-A4 sheets
- 1.Prepare a table to show the disorders/ diseases caused by deficiency of Vitamins and minerals.
2. Draw a picture of a plant showing all the parts.
3. Collect the pictures of different landforms like hills, mountains, plains, valleys. Write one or two sentences on each one of these landforms next to the pictures.

4. Write about 200 words on the planets assigned to you.(04 Groups)
5. Prepare a chart of solar system.

II. HOME WORK BOOK: (Write in Home work book)

1. Give reasons why?
 - a. Seeds kept in refrigerator do not sprout
 - b. It is important to use natural resources carefully and judiciously
 - c. We should include healthy items in our daily diet.
 - d. We should wash our hands always before our meals.
2. Draw a neat labelled diagram of water cycle.

III. MULTIDISCIPLINARY PROJECT: TOPIC: IMPORTANCE OF BOOKS. –

A4 SHEETS-ONE FILE FOR ALL SUBJECTS

SOCIAL SCIENCE

- 1 . Why is it 5:30 pm in india when it is 12 pm or noon in London
- 2.Why do we need symbols and colours in the map
- 3.Find out what you have in the right directions form your home or school
- 4.How manyw states does the Tropic of cancer pass through in India and what are their names
- 5.In what ways do oceans and continents impact life on Earth including human life
- 6.What are the major types of landforms and their significance to life and cultural
- 7.How do we measure historical time
- 8.What were the ancient names for india
- 9.Why is the family unit important
- 10.Draw a india map and find out the states and their capitals

MATHS

I) Add the following numbers:

(a) 3 6 0 8	(b) 6 2 5 5 8	(c) 5 5 5 6 6 6
+ 1 5 6 0	+ 3 1 8 7 9	+ 2 7 7 8 8 8
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(II) Subtract the following numbers:

(a) 6 0 5 3	(b) 9 5 7 2 0	(c) 6 7 5 6 4 2
(-) 2 0 3 2	(-) 4 3 6 1 0	(-) 3 8 5 4 2 7
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(III) Multiply the following numbers:

(a) 485×9	(b) 999×54	(c) 3402×50
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(IV) Divide the following and write the Quotient and the Reminder.

(a) $584 \div 8$	(b) $3560 \div 20$	(c) $3245 \div 15$
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(V) Write the number sequences in Table 1 (chapter 1) 2 times.

(VI) Write Multiplication tables (2 to 15) each 2 times.

(VII) What happens when you start adding up odd numbers and which number sequence do you get?

AI

1. Write a short story or drawing a comic strip depicting a world with advanced AI technology
2. Create a list of AI -related objects, concepts or technologies .
 - a) A picture or description of a robot
 - b) A news article about AI in healthcare
 - c) A list of popular AI applications or tools

HAPPY SUMMER HOLIDAYS!